WHAT IS CLAIMED IS:

1		1.	A method for generating a luminosity compensated image, the method			
2	comprising:					
3		defining a luminosity texture having a plurality of luminosity texels;				
4		conve	erting pixel data for an underlying image to an image texture having a			
5	plurality of in	clurality of image texels;				
6		blend	ing the image texture onto a target surface having a shape; and			
7		blending the luminosity texture onto the target surface, thereby generating				
8	luminosity compensated pixel data for the image.					
1		2.	The method of claim 1, wherein the target surface comprises a polygon			
2	having a plura	rality of vertices, at least one of the vertices being associated with one of the				
3	image texels of the image texture.					
1		3.	The method of claim 1, further comprising:			
2		provid	ding the luminosity compensated pixel data to a display device.			
1		4.	The method of claim 3, wherein providing the luminosity compensated			
2	pixel data to the	pixel data to the display device includes:				
3		storin	g the luminosity compensated pixel data in a frame buffer; and			
4		subsec	quently scanning out the frame buffer data, thereby providing data to the			
5	display device	.				
1		5.	The method of claim 1, wherein each luminosity texel includes a			
2	scaling factor.					
1		6.	The method of claim 5, wherein blending the luminosity texture onto			
2	the target surface includes:					
3		selecting one of the luminosity texels; and				
4		multiplying a pixel value from the target surface by the scaling factor of the				
5	selected luminosity texel.					
1		7.	The method of claim 5, wherein the scaling factors define a luminosity			
2	gradient to be applied across an area of the image.					
1		8.	The method of claim 1, further comprising:			

2 providing a user interface enabling a user to modify the shape of the target 3 surface. 1 9. The method of claim 8, wherein the act of defining the luminosity 2 texture includes automatically updating one or more of the luminosity texels in response to a 3 user modification of the shape of the target surface. 1 10. The method of claim 9, wherein automatically updating one or more of 2 the luminosity texels includes computing a luminosity scaling factor based on a distance to a 3 location on the target surface that maps to the texel. 1 11. The method of claim 10, wherein the distance is determined from a depth coordinate of the location on the target surface. 2 1 12. The method of claim 1, wherein the luminosity texture includes a low 2 luminosity region. 1 13. The method of claim 12, wherein the low luminosity region 2 corresponds to an overlap region in an image to be displayed using a plurality of display 3 devices configured to display overlapping image elements. 1 14. The method of claim 1, wherein the luminosity texture includes dark 2 texels for forming a visible pattern superimposed on the underlying image. 1 15. The method of claim 14, wherein the visible pattern corresponds to a 2 message readable by a user. 1 16. The method of claim 1, further comprising: 2 providing a user interface enabling a user to define the luminosity texture. 1 17. The method of claim 16, wherein the user interface further enables the 2 user to save the luminosity texture to a file. 1 18. The method of claim 17, wherein the user interface further enables the 2 user to select a previously saved luminosity texture file to be applied. 1 19. The method of claim 16, wherein the user interface further enables the 2 user to modify the luminosity texture.

1	2	20.	The method of claim 1, wherein each luminosity texel includes an			
2	independent scaling factor for each of a plurality of color components.					
1	2	21.	The method of claim 20, wherein the plurality of color components			
2	includes a red c	ompoi	nent, a green component, and a blue component.			
1	2	22.	A graphics processing system comprising:			
2	а	a textu	re generation module configured to convert pixel data for an underlying			
3	image to an ima	image to an image texture having a plurality of image texels;				
4	a texture memory configured to store the underlying image texture and a					
5	luminosity texture having a plurality of luminosity texels; and					
6	a	ı multi	stage texture blending module configured to blend each of the image			
7	texture and the luminosity texture onto a target surface having a shape, thereby generating					
8	luminosity-compensated pixel data for an image.					
1			The graphics processing system of claim 22, wherein the target surface			
2	comprises a polygon having a plurality of vertices, at least one of the vertices being					
3	associated with a	a textu	are coordinate of the image texture.			
1	2	4.	The graphics processing system of claim 22, further comprising a			
2	frame buffer configured to store the luminosity-compensated pixel data.					
			on pensated pixel data.			
1	2.	5.	The graphics processing system of claim 22, further comprising			
2	scanout control logic configured to provide the luminosity-compensated pixel data to a					
3	display device.					
1	20	6. <i>'</i>	The graphics processing exists of claim 22 and and a second second			
2	texel includes a s		The graphics processing system of claim 22, wherein each luminosity			
2	texel illeludes a s	Scanne	g factor.			
1	27	7. <i>'</i>	The graphics processing system of claim 22, further comprising:			
2	a	user in	nterface module configured to enable a user to modify the shape of the			
3	target surface.					
1	20	0 -				
1	28		The graphics processing system of claim 27, further comprising a			
2	luminosity compensation module configured to automatically update the luminosity texture					

3	stored in the texture memory in response to a user modification of the shape of the target					
4	surface.					
1	29.	The graphics processing system of claim 28, wherein the				
2	luminositycompensation module is further configured to compute an updated value for a texel					
3	of the luminosity tex	ture based on a distance to a location on the target surface that maps to				
4	the texel.					
1	30.	The graphics processing system of claim 29, wherein the distance is				
2	determined from a depth coordinate of the location on the target surface.					
1	31.	The graphics processing system of claim 22, wherein the luminosity				
2	texture includes a low luminosity region.					
1	32.	The graphics processing system of claim 31, wherein the low				
2		rresponds to an overlap region in an image to be displayed using a				
3	plurality of display devices configured to display overlapping image elements.					
	remaining of display a	ovices comigated to display overlapping image elements.				
1	33.	The graphics processing system of claim 22, wherein the luminosity				
2	texture includes darkened texels forming a visible pattern.					
1	34.	The graphics processing system of claim 33, wherein the pattern				
2		sage readable by a user.				
		suge reduction by a disort				
1	35.	The graphics processing system of claim 22, further comprising a user				
2	interface module configured to enable a user to define the luminosity texture.					
1	36.	A computer program product comprising:				
2		puter readable medium encoded with program code, the program code				
3	including:	respectively and program code, and program code				
4	· ·	program code for defining a luminosity texture that includes a scaling				
5	factor for each	of a plurality of luminosity texels;				
6		program code for converting pixel color values of an underlying image				
7	to an image texture having a plurality of image texels;					
8	J	program code for blending the image texture onto a surface having a				
9	shape; and					

10 program code for blending the luminosity texture onto the target 11 surface, thereby generating luminosity compensated pixel data for the image. 1 37. The computer program product of claim 36, wherein the computer 2 readable medium comprises a magnetic storage medium encoded with the program code. 1 38. The computer program product of claim 36, wherein the computer 2 readable medium comprises an optical storage medium encoded with the program code. 1 39. The computer program product of claim 36, wherein the computer 2 readable medium comprises a carrier signal encoded with the program code and adapted for 3 transmission via a network. 1 40. The computer program product of claim 36, wherein the program code 2 further includes program code for providing a user interface enabling a user to define the 3 luminosity texture. 1 41. The computer program product of claim 36, wherein the program code 2 further includes program code for providing a user interface enabling a user to modify the 3 shape of the target surface. 1 42. The computer program product of claim 41, wherein the program code 2 further includes program code for updating the scaling factor for each luminosity texel based 3 on the modified shape of the target surface.